CCS Technical Documentation
RH-26 Series Transceivers

1 - General Information

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RH-26 Product Selection

RH-26 is a triple band radio transceiver unit designed for the GSM850, GSM1800 and GSM1900 networks. GSM power class is 4 and PCN power class is 1.

RH-26 product and modules

Name	Type code	Material code/ module type	Module code
Basic transceiver	RH-26	0510684	
Radio module		1BM	0202157
Mechanics assembly parts		MRH26	0263252
Flip assembly		MRH26	0262885
Software module (basic SW)			On Flash memory

Figure 1: RH-26 transceiver

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Mobile Enhancements

Batteries	**Product code:**
Semi-fixed Battery BL-5C	0670400
Chargers	**Product code:**
Performance Travel Charger ACP-12E (EUR)	0675294
Performance Travel Charger ACP- 12X (UK)	0675296
Performance Travel Charger ACP-12U (US) Made in country	0675303
Performance Travel Charger ACP- 12UB (US) (Countries like Brazil/Portugal)	0675293
Performance Travel Charger ACP-12G (US) (Countries like Brazil/Gradient)	0675295
Performance Travel Charger ACP- 12C (China)	0675297
Performance Travel Charger ACP-12AR (Argentina)	0675298
Performance Travel Charger ACP-12A (Australia)	0675300
Cigarette Lighter Charger LCH-9 10.8.. 32 Vdc	0675120
Note! ACP-7, ACP-8 and ACP-9 chargers are also compatible with RH-26	

Portable and Office Accessories
Stereo Headset HS-5
Wireless Boom Headset HS-4W
Wireless Clip-on Headset HS-3W
Wireless Headset HDW-2
Boom Headset HDB-4
Fashion Headset HS-3W
Rectractable Headset HS-10
Mobile Accessories:
Wireless Car Kit CK-1W
Car Installation Kit CARK126
Other Accessories:
Connectivity Adapter Cable DKU-5
Connectivity Stand DCV-14
Nokia Observation Camera
Image Viewer SU-2
Digital Pen SU-1B
Pocket Clip and Carrying Case

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Technical Specifications

General specifications of transceiver RH-26

Unit	Dimensions (mm) (L x W x T)	Weight (g)	Volume (cm^3)
RH-26 Transceiver with BL-5C battery pack	55mm x 117mm x 22.5mm	120	105

Parameter	Unit
Cellular System	GSM850, GSM1800, GSM1900
RX Frequency Band	GSM850: 869 - 894 MHz GSM1800: 1805 - 1880 MHz GSM1900: 1930 - 1990 MHz
TX Frequency Band	GSM850: 824 - 849 MHz GSM1800: 1710 - 1785 MHz GSM1900: 1850-1910 MHz
Output Power	GSM850: +5...+33 dBm / 3.2 mW... 2 W GSM1800: +0...+30 dBm / 1.0 mW... 1 W GSM1900: +0...´30dBm / 1.0 mW... 1W
Number of RF Channels	GSM850: 124 GSM1800: 374 GSM1900: 299
Channel Spacing	200 kHz
Number of TX Power Levels	GSM850: 15 GSM1800: 16 GSM1900: 16

Battery endurance

Nokia measurements of the operational times in GSM 850/1800 and GSM 1900 are:

Battery	Talk time	Stand-by time
BL-5C	up to 3-7 hours	up to 10 days

Note! Variation in operating times may occur depending on the SIM card, network and usage settings, usage style and environments. Talk time is increased by up to 30%, if half rate is active, and reduced by 5%, if enhanced full rate is active.

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Environmental conditions

Environmental condition	Ambient temperature	Notes
Normal operation	-10 °C... +55 °C	Specifications fulfilled
Reduced performance	+55 °C... +65 °C	Operational only for short periods
Intermittent operation	-20 °C... -10 °C and +65 °C... +80 °C	Operation not guaranteed but an attempt to operate will not damage the phone
No operation	-40 °C... -20 °C	Operation not possible but an attempt to operate will not damage the phone
No operation or storage	< -40 °C and > +80 °C	No storage; an operation attempt may cause permanent damage
Charging allowed	-25 °C... +60 °C	
Long term storage conditions	0 °C... +40 °C	

Transceiver features

Transceiver main HW parts / features include:

- Triple band GSM850/GSM1800/GSM1900
- Bluetooth
- Passive matrix colour display 4096 colours (130 x 130 pixels used in applications i.e. Series 40, active area 30.8 mm x 30.8 mm), Display contrast control
- 5-way joystick
- ITU-T keypad and full alphanumeric keyboard
- Internal antenna
- Internal vibra
- Integrated handsfree
- Speech codecs: HR, FR, EFR, AMR
- Real time clock
- Pop-Port™ system connector

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Electrical characteristics

Absolute maximum ratings

Parameter	Min.	Typical	Max.	Unit
Battery Voltage, Idle	-0.3		5.5	V
Battery Voltage, Call	-0.3		4.8	V
Charger Input Voltage	-0.3		16	V
Charging Current			850	mA

Supply voltages

Parameter	Min.	Typical	Max.	Unit / Notes
Battery Voltage	2	3.6	4.2	V / SW cut-off 3.2 V

Current consumption

Condition	Min.	Typical	Max.	Unit
Call (MoU) EGSM 850 GSM 1800 GSM 1900		 237 172 172		mA
Idle (MoU)		3-4		mA
Power off			50	µA

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